

**Project Name:** Tonebridge land resources survey  
**Project Code:** TON **Site ID:** 0685 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

**Site Information**

**Desc. By:** Angela Stuart-Street  
**Date Desc.:** 04/11/98  
**Map Ref.:**  
**Northing/Long.:** 6225109 AMG zone: 50  
**Easting/Lat.:** 479696 Datum: AGD84  
**Locality:**  
**Elevation:** No Data  
**Rainfall:** No Data  
**Runoff:** No Data  
**Drainage:** Moderately well drained

**Geology**

**ExposureType:** Auger boring  
**Geol. Ref.:** No Data  
**Conf. Sub. is Parent. Mat.:** No Data  
**Substrate Material:** No Data

**Landform**

**Rel/Slope Class:** Gently undulating plains <9m 1-3%  
**Pattern Type:** Alluvial plain

**Morph. Type:** Flat  
**Elem. Type:** Plain  
**Slope:** %  
**Relief:** No Data  
**Slope Category:** No Data  
**Aspect:** 180 degrees

**Surface Soil Condition** Soft

**Erosion** (wind); (scald) (sheet) (wave) (rill) (mass)  
 (gully) (stbank) (tunnel)

**Soil Classification**

**Australian Soil Classification:**  
 Ferric Mottled-Subnatric Yellow Sodosol  
**ASC Confidence:**  
 Confidence level not specified  
**Mapping Unit:** N/A  
**Principal Profile Form:** N/A  
**Great Soil Group:** N/A

**Site Disturbance** Complete clearing. Pasture, native or improved, cultivated at some stage

**Vegetation**

**Surface Coarse Fragments** No surface coarse fragments

**Profile Morphology**

A11 0 - 0.1 m Very dark grey (2.5Y3/1-Moist); ; Loamy sand; Moist; Field pH 5.6 (pH meter); Clear change to -  
 A21 0.1 - 0.3 m Greyish brown (2.5Y5/3-Moist); ; Loamy sand; Moist; Field pH 5.6 (pH meter); Clear change to -  
 A22c 0.3 - 0.5 m Greyish brown (2.5Y5/3-Moist); ; Clayey sand; Moist; 50-90%, medium gravelly, 6-20mm, subrounded,  
 Ironstone, coarse fragments; Field pH 5.8 (pH meter); Clear change to -  
 B21t 0.5 - 0.75 m Olive yellow (2.5Y6/6-Moist); ; 2.5Y74, 20-50% , 0-5mm, Distinct; , 10YR68, 10-20% , 0-5mm, Prominent;  
 Sandy light clay; Moist; Field pH 6.2 (pH meter);

**Morphological Notes**

**Observation Notes**

**Site Notes**

broad plain below Newgalup Map Unit. Water in hole. Area of surface scalding about 20 m east of site. Sample collected for sodicity analysis.

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0.5 - 0.75	5.8B 6.5H	25B	0.84A	2.64	<0.02	1.09			4.58D	

Depth	CaCO <sub>3</sub>	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m <sup>3</sup>			%	
0.5 - 0.75 23.5									711		5.5

#### **Laboratory Analyses Completed for this profile**

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15A1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_NA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15J_BASES	Sum of Bases
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	
	and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded